

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER OF ATENTS AND TRADEMARKS Washington DC 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	A ITORNEY DOCKET NO	CONFIRMATION NO.
09 890,326	07 30.2001	Tatsuya Ekinaka	OHSH-304	2053
75	90 03 14 2003			
Sherman & Shalloway			EXAMINER	
413 North Wash Alexandria, VA			PENG, KUC) LIANG
			ART UNIT	PAPER NUMBER
			1712	
			DATE MAILED: 03-14-2003	Ç

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/890.326	EKINAKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kuo-Liang Peng	1712				
The MAILING DATE of this communication of Period for Reply	appears on the cover shee	t with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6-MONTHS from the making date of this communication.) If the period for reply is specified above is less than thirt, (6-modys at lift NO period for reply is specified above, the maximum statutory per Failure to reply, within the set or extended period for reply will by state. Any reply received by the Office later than three months after the make armed parent term adjustment. See 37 CFR 1-704(b)	N. R 1 136-a — nind event however mainings, within the statutor, minimum of nod will apply, and will expire SIX (6) fature cause the application to become	, a repl, be timely filed thirt, Repl, days will be considered timely. JONTHS from the mailing date of this communication as BANDONED 135 U.S.C. § 133.				
Status	10/05/04 100					
1) Responsive to communication(s) filed on 1						
, _	This action is non-final.	matters, presenting on to the morita is				
3) Since this application is in condition for allo closed in accordance with the practice und Disposition of Claims	•	·				
4) \boxtimes Claim(s) <u>1-26</u> is/are pending in the applicat	tion.					
4a) Of the above claim(s) is/are without	drawn from consideration.					
5)⊠ Claim(s) <u>1-20 and 23-26</u> is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) 21 and 22 is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam	iner.					
10)☐ The drawing(s) filed on is/are: a)☐ ad	ccepted or b) objected to b	by the Examiner.				
Applicant may not request that any objection to						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the	Examiner.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for fore	eign priority under 35 U S.	C. § 119(a)-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority docume	ents have been received.					
2. Certified copies of the priority docume	ents have been received in	n Application No				
 3. Copies of the certified copies of the p application from the International See the attached detailed Office action for a limited of the certified of the certified of the certified of the certified copies of the particular copies. 	Bureau (PCT Rule 17.2(a)).				
14) Acknowledgment is made of a claim for dome	estic priority under 35 U.S.	C. § 119(e) (to a provisional application).				
a) The translation of the foreign language	, ,					
Attachment(s)	, , , , , , , , , , , , , , , , , , , ,					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper Nois 	5) Notice	ew Summary (PTO-413) Paper Nots) of Informal Patent Application (PTO-152) See Continuation Sheet				

Continuation of Attachment(s) 6). Other: English translation of JP 09-011405.

DETAILED ACTION

1. The Applicants' preliminary amendment filed on July 30, 2001was received. Claims 4 and 6 are amended. Claims 19-26 are added.

Claim Objections

- 2. Claims 21-22 are objected to because of the following informalities:
 - It is noted that Claim 21 cannot depend on itself.
 - Appropriate correction is required.

Allowable Subject Matter

- 3. Claims 1-20 and 23-26 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Hanada (JP 09-011405) discloses a plastic moldings with protected surface wherein the protected surface contains three layers, i.e., a first layer of acrylic resin, a second layer of acrylic resin and a third layer of siloxane resin ([0006]-[0012]). It is noted that the first layer of acrylic resin contains alkoxysilane of formula (A) ([0007]), while the second layer of acrylic resin does not contain the aforementioned alkoxysilane ([0010]-[0011]). In other words, the first layer of acrylic resin and the second layer of acrylic resin are distinct. Therefore, Hanada does not teach or fairly suggest a protected surface having a layer of siloxane resin on a single layer of acrylic resin. Although comparison Example 1 and comparison Example 3 ([0118] and [0120]) teaches the aforementioned layer 3 on top of either layer 1 or layer 2 (i.e., either layer 1 or layer 2 is not

Application Control Number: 09 890,326

Art Unit: 1712

present). However, the compositions of layer 3 in the instant comparison examples do not contain tetraalkoxysilane ([0113]). Therefore, Hanada does not teach or fairly suggest a protected surface having a layer of siloxane resin on a single layer of acrylic resin, wherein the layer of siloxane resin contains a hydrolysis condensate of a trialkoxysilane and a hydrolysis condensate of a tetraalkoxysilane.

Tateoka (US 4,708,908) (corresponding to JP 61-86259) discloses a surface-hardening coating on a plastic body (col. 1, lines 40-43). The surface-hardening coating contains a primer layer of an acrylic resin base (col. 2, line 58-59) and a hard-coat layer (col. 3, lines 1-2). The hard-coat layer can contain colloidal silica and methyl sesquisiloxane (i.e., derived from methyltrialkoxysilane) (col. 5, lines 26-27). However, Tateoka does not teach or fairly suggest the use of a hard-coat layer contains a hydrolysis condensate of a trialkoxysilane and a hydrolysis condensate of a tetraalkoxysilane.

Konishi (US 5,725,960) discloses a hard coat layer on the surface of molded articles using a primer layer between the hard coat layer and the surface of molded articles (col. 1, line 61 to col. 2, line 3). The primer layer can be acrylic resins (col. 6, lines 45-67). The silicone hard coating can contain colloidal silica and hydrodrolysis condensate of silane compounds (col. 7, line 40 to col. 8, line 16). At least one silane compounds can be used (col. 14, lines 4-14). However, Konishi does not teach or fairly suggest the use of colloidal silica and the mixture of silane compounds in the specific relative amounts set forth in the present invention.

Application Control Number: 09 890,326

Art Unit: 1712

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuo-Liang Peng whose telephone number is (703) 306-5550. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Dawson, can be reached on (703) 308-2340. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Kuo-Liang Peng

March 10, 2003

I Company